

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,600	11/19/2001	Douglas H. Anderson	CYPR-CD01174M 8949	
7590 05/15/2007 WAGNER, MURABITO & HAO LLP			EXAMINER	
Thrid Floor			STORK, KYLE R	
Two North Market Street San Jose, CA 95113			ART UNIT	PAPER NUMBER
,			2178	
				•
			MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/994,600	ANDERSON ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kyle R. Stork	2178		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
<ul> <li>1) ⊠ Responsive to communication(s) filed on <u>08 M</u></li> <li>2a) ☐ This action is FINAL. 2b) ⊠ This</li> <li>3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E</li> </ul>	action is non-final.			
Disposition of Claims				
4) Claim(s) 1-6,8-22 and 24-26 is/are pending in 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed.  6) Claim(s) 1-6,8-22 and 24-26 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/o  Application Papers  9) The specification is objected to by the Examine	wn from consideration. r election requirement.			
10) The drawing(s) filed on is/are: a) accomposed and all accomposed are all accomposed and accomposed are all accompo	drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

Application/Control Number: 09/994,600 Page 2

Art Unit: 2178

#### **DETAILED ACTION**

1. This non-final office action is in response to the Request for Continued Examination filed 8 March 2007.

2. Claims 1-6, 8-22, and 24-26 are pending. Claims 1, 11, 17, and 24 are independent claims.

The rejection of claims 1, 4-5, 8-9, 11, 13-14, 16-17, 20-21, and 24-26 under 35 USC 103 over Hekmatpour (US 2002/0156929, filed 23 April 2003) and further in view of Bloodworth et al. (US 2001/0045861, filed 23 November 1999, hereafter Bloodworth) has been withdrawn as necessitated by the amendment.

The rejection of claims 2-3, 6, 12, 15, 18-19, and 22 under 35 USC 103 over Hekmatpour and Bloodworth and further in view of Brooke et al. (US 6748569, filed 20 September 1999, hereafter Brooke) has been withdrawn as necessitated by the amendment.

The rejection of claim 10 under 35 USC 103 over Hekmatpour and Bloodworth and further in view of Bauwens et al. (US 6704893, filed 15 August 2000, hereafter Bauwens) has been withdrawn as necessitated by the amendment.

Application/Control Number: 09/994,600 Page 3

Art Unit: 2178

## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 4-5, 8-9, 11, 13-14, 16-17, 20-21, and 24-26 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Hekmatpour (US 2002/0156929, filed 23 April 2003) and further in view of Southgate et al. (US 6588004, filed 7 July 2000, hereafter Southgate).

As per independent claim 1, Hekmatpour discloses a method of generating a project datasheet in an integrated design environment comprising:

- Accessing project data from an XML database structure, the project data from
  the integrated design environment and for describing an electronic system design
  for implement on a microcontroller programmable system on a chip (paragraphs
  0011-0013: Here, XML is used as the underlying database structure for SOCML.
  SOCML has functional components including a database and database
  exchange manager. Further, SOCML is used as the production/design of a
  system on a chip)
- Accessing an XSL stylesheet directed to project datasheets (paragraph 0013)
- Processing the project datasheet according to the XSL stylesheet to automatically produce a project datasheet file (paragraphs 0011-0013: Here, the SOCML database is transformed using XSL to produce output)

Page 4

Hekmatpour fails to specifically disclose the project datasheet file including integrated circuit pinout assignment data. However, Southgate discloses a integrated circuit design including inputs and outputs for each gate within the system on a chip (column 3, lines 3-18). Further, a design file (project datasheet) is generated that corresponds to the IC design (column 3, lines 38-50). Further, the design file is stored in a database (column 9, lines 36-40). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have combined Southgate with Hekmatpour since it would have allowed a user to create a graphical output file in conjunction with the project data.

As per dependent claim 4, Hekmatpour discloses the method further including displaying the project datasheet (paragraph 0013: Here, the project data is manipulated by the XSL transformations, so that it can be output).

As per dependent claim 5, Hekmatpour discloses the method wherein displaying the project datasheet is done as a single action display (paragraphs 0011-0013: Here, the XSL transformations are applied, and the datasheet is output).

As per dependent claim 8, Hekmatpour discloses the method wherein the project datasheet includes a user module schematic (paragraphs 0037 and 0045: Here, the user module schematic (design data) is stored within a SOCML database. Then, the XSL stylesheet is applied to generate the datasheet containing the module schematic).

As per dependent claim 9, Hekmatpour discloses the method wherein the project datasheet includes global parameters (paragraphs 0041 and 0045: Here, the DTD designates the global parameters (elements) that may exist in the SOCML document.

These parameters can then have an XSL stylesheet applied to generate the project datasheet of the parameters).

As per independent claim 11, the applicant discloses the limitations similar to those in claim 1. Claim 11 is similarly rejected.

As per dependent claim 13, Hekmatpour discloses the system further including a browser (paragraph 0032).

As per dependent claim 14, Hekmatpour discloses the system further including a visual display (paragraph 0033).

As per dependent claim 16, Hekmatpour discloses the system further including an integrated design environment (paragraphs 0011-0013).

As per independent claim 17, the applicant discloses the limitations similar to those in claim 1. Claim 11 is similarly rejected.

As per dependent claim 20, the applicant discloses the limitations similar to those in claim 4. Claim 20 is similarly rejected.

As per dependent claim 21, the applicant discloses the limitations similar to those in claim 5. Claim 21 is similarly rejected.

As per independent claim 24, Hekmatpour discloses a computer controlled method for generating design information comprising:

- Selecting a plurality of global parameters (paragraph 0041)
- Selecting at least one user module representing a circuit design for a microcontroller programmable system on a chip (paragraphs 0011-0013)

Application/Control Number: 09/994,600

Art Unit: 2178

• Placing the user module within a plurality of programmable hardware resources (paragraphs 0011-0013; paragraphs 0031-0034; Figure 1a)

Page 6

- Parameterizing the user module (paragraphs 0011-0013: Here, the data is stored
  in a SOCML document acting as a database)
- Establishing connections to the user module (Figure 1b: Here, users connect to data through the server)
- Automatically generating a datasheet file describing an electronic design project from an integrated design environment and comprising the user module as parameterized, its connections and the global parameters (paragraphs 0011-0013)

Hekmatpour fails to specifically disclose the project datasheet file including integrated circuit pinout assignment data. However, Southgate discloses a integrated circuit design including inputs and outputs for each gate within the system on a chip (column 3, lines 3-18). Further, a design file (project datasheet) is generated that corresponds to the IC design (column 3, lines 38-50). Further, the design file is stored in a database (column 9, lines 36-40). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have combined Southgate with Hekmatpour since it would have allowed a user to create a graphical output file in conjunction with the project data.

As per dependent claim 25, Hekmatpour discloses the method further comprising rendering in a visual form the datasheet file (paragraph 33).

As per dependent claim 26, Hekmatpour discloses the method wherein the automatically generating a datasheet file comprises:

- Accessing a project data from an XML database structure (paragraphs 0011-0013)
- Accessing an XSL stylesheet (paragraphs 0011-0013)
- Processing the project data according to the XSL stylesheet to automatically produce the datasheet file (paragraphs 0011-0013)
- 5. Claims 2-3, 6, 12, 15, 18-19, and 22 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Hekmatpour and Southgate and further in view of Brooke et al. (US 6748569, filed 20 September 1999, hereafter Brooke).

As per dependent claim 2, Hekmatpour fails to specifically disclose formatting the data sheet in HTML. However, Brooke discloses formatting data in HTML (column 8, lines 7-17: Here, the XSP processor and XSP script act upon the XML tree to format the datasheet into an HTML file).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have combined Hekmatpour's method with Brooke's method, since it would have allowed a user to format that is ready for data interchange or display in a browser (Brooke: column 8, lines 7-17).

As per dependent claim 3 Hekmatpour and Brooke disclose the limitations similar to those in claim 2, and the same rejection is incorporated herein. Hekmatpour further discloses rendering the project datasheet as visual output using a browser (paragraphs 0032-0033).

As per dependent claim 6, Hekmatpour fails to specifically disclose the method wherein displaying the project datasheet includes printing the project data sheet.

However, Brook discloses printing (column 4, lines 58-62: Here, the fact that the system is equipped with a printer allows for the data sheet to be printed if the user desires).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have combined Hekmatpour's method with Brooke's method, since it would have allowed a user to maintain a hard copy of the data.

As per dependent claims 12 and 18, the applicant discloses the limitations similar to those in claim 2. Claims 12 and 18 are similarly rejected.

As per dependent claims 15 and 22, the applicant discloses the limitations similar to those in claim 6. Claims 15 and 22 are similarly rejected.

As per dependent claim 19, the applicant discloses the limitations similar to those in claim 3. Claim 19 is similarly rejected.

6. Claim 10 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Hekmatpour and Southgate and further in view of Bauwens et al. (US 6704893, 15 August 2000, hereafter Bauwens).

As per dependent claim 10, Hekmatpour fails to specifically disclose input and output configuration data. However, Bauwens discloses input and output configuration data (column 4, lines 11-22).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have combined Brooke and Bauwens' method of displaying

a project datasheet with Bauwens' method of including input and output configuration data, since it would have allowed a user to view input and output configuration data in a formatted display.

### Response to Arguments

7. Applicant's arguments with respect to claims 1-6, 8-22, and 24-26 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyle R. Stork whose telephone number is (571) 272-4130. The examiner can normally be reached on Monday-Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/994,600

**Art Unit: 2178** 

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kyle R Stork Patent Examiner Art Unit 2178

krs

STEPHEN HONG

TRVISORY PATENT EXAMINER

Page 10